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|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 10/615,236             | KWON, TAE WOO       |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | Long Nguyen            | 2816                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed on 7/9/03.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 09 July 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Yoon S. Ham on 4/27/04.

The application has been amended as follows:

**In The Claims**

Claim 1, line 1, "buffer having" has been changed to --buffer system having--.

Claim 1, line 3, "any one output of two" has been changed to --one of outputs of the two data--.

Claim 1, line 6, "when outputs of the two output" has been changed to --when the outputs of the two data output--.

Claim 1, line 8, "buffer" has been changed to --buffers--.

Claim 2, line 1, "buffer having" has been changed to --buffer system having--.

Claim 2, line 3, "a selected output" has been changed to --the one of the outputs--.

Claim 2, line 4, "signal; and" has been changed to --signal of the control signal; and--.

Claim 2, line 5, "the selected output" has been changed to --the one of the outputs--.

Claim 2, line 6, "signal." has been changed --signal of the control signal.--.

Claim 3, line 1, "buffer having" has been changed to --buffer system having--.

Claim 3, line 6, “the first driving signal and the second” has been changed to --a first driving signal of the control signal and a second--.

Claim 3, line 7, “driving signal according to a preset signal and a” has been changed to --driving signal of the control signal according to the preset signal and the--.

Claim 4, line 1, “buffer having” has been changed to --buffer system having--.

Claim 4, line 4, “buffers each” has been changed to --buffers in each--.

Claim 5, line 1, “buffer having” has been changed to --buffer system having--.

Claim 5, line 3, “switching any one output of the two data” has been changed to --transmitting the one of the outputs of the two data output--.

Claim 5, line 6, “switching” has been changed to --transmitting--.

Claim 5, line 6, “output the two data” has been changed to --output of the outputs of the two data output--.

Claim 5, line 15, “a preset” has been changed to --the preset--.

Claim 5, line 20, “a preset” has been changed to --the preset--.

Claim 6, line 1, “buffer having” has been changed to --buffer system having--.

Claim 6, line 4, “the third” has been changed to --a second--.

Claim 6, line 11, “signal the” has been changed to --signal same as the--.

Claim 6, line 13, “signal the” has been changed to --signal same as the--.

#### **Reasons For The Above Changes**

The above changes are necessary to overcome the indefinite problems and/or minor informalities in the claims.

### REASONS FOR ALLOWANCE

2. Claims 1-6 are allowed.

Claim 1 is allowed because fails to disclose or suggest a data output buffer system including, in combination with other limitations, a control circuit for generating a control signal to drive the preset driver when the outputs of the two data output buffers in each group are same.

Claims 2-6 are allowed because they depend on claim 1.

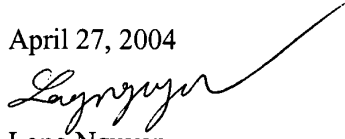
### *Conclusion*

3. Any inquiry concerning this communication or earlier communications from the examiner should be directly to Examiner Long Nguyen whose telephone number is (571) 272-1753. The Examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached at (571) 272-1740. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 27, 2004

  
Long Nguyen  
Primary Examiner  
Art Unit: 2816